Quiz on Vectors

1. Find the component form and the magnitude of the vector with P as it’s initial point and Q as it’s terminal point.



1. Find a unit vector in the direction of the given vector:



1. Sketch a graph of the following vectors and then perform the indicated operations.



Sketch:

*U+V 3U*

1. Graphically represent what you did in problem number 3 when you added *U* and *V.*
2. Find the magnitude and direction angle of the vector V (from problem #3). (you may use your calculator)
3. Two forces are acting on an object. One with 45 newtons of force at a  angle and the other with 30 newtons of force at a - angle. What is the direction and magnitude of the resultant vector?